



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07K 5/062, 5/078, A61K 38/05	A1	(11) International Publication Number: WO 99/06432 (43) International Publication Date: 11 February 1999 (11.02.99)
(21) International Application Number: PCT/US98/15325 (22) International Filing Date: 31 July 1998 (31.07.98) (30) Priority Data: 08/904,417 31 July 1997 (31.07.97) US (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 08/904,417 (CON) Filed on 31 July 1997 (31.07.97) (71) Applicants (for all designated States except US): ATHENA NEUROSCIENCES, INC. [US/US]; 800 Gateway Boulevard, South San Francisco, CA 94080 (US). AMERICAN HOME PRODUCTS CORPORATION [US/US]; 5 Giraldi Farms, Madison, NJ 07940 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): THORSETT, Eugene, D. [US/US]; 571 Buena Vista, Moss Beach, CA 94038 (US). SEMKO, Christopher, M. [CA/US]; 2361 Carpenter Court, Fremont, CA 94539 (US). PLEISS, Michael, A. [US/US]; 848 Stella Court, Sunnyvale, CA 94087 (US). LOMBARDI, Louis, John [US/US]; 412 Southwoods Road,		Belle Mead, NJ 08502 (US). GRANT, Francine, S. [FR/US]; 3735 Sacramento Street, San Francisco, CA 94118 (US). DRESSEN, Darren, B. [US/US]; 3110 Casa de Campo #2, San Mateo, CA 94403 (US). DAPPEN, Michael, S. [US/US]; 640 Topaz Street, Redwood City, CA 94061 (US). (74) Agents: SWISS, Gerald, F. et al.; Burns, Doane, Swecker & Mathis, L.L.P., P.O. Box 1404, Alexandria, VA 22313-1404 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: DIPEPTIDE AND RELATED COMPOUNDS WHICH INHIBIT LEUKOCYTE ADHESION MEDIATED BY VLA-4 (57) Abstract Disclosed are compounds which bind VLA-4. Certain of these compounds also inhibit leukocyte adhesion and, in particular, leukocyte adhesion mediated by VLA-4. Such compounds are useful in the treatment of inflammatory diseases in a mammalian patient, e.g., human, such as asthma, Alzheimer's disease, atherosclerosis, AIDS dementia, diabetes, inflammatory bowel disease, rheumatoid arthritis, tissue transplantation, tumor metastasis and myocardial ischemia. The compounds can also be administered for the treatment of inflammatory brains diseases such as multiple sclerosis.		